

## CLAIMS

What is claimed is:

1. A copper composition characterized by an anisotropic x ray emission spectrometry (XES) image.
- 5 2. A copper composition wherein the radial XES image detects elements not detected in the axial XES image.
3. The copper composition of Claim 2 wherein the radial XES image detects an element selected from the group consisting of sulfur, chlorine, potassium, aluminum, silicon and oxygen.
- 10 4. A copper composition manufactured by a process consisting of exposing a starting composition to an iterative cyclic process in the presence of a carbon source, said composition is characterized by an anisotropic XES image.
5. A copper composition, free of an element, characterized by an XES image  
15 that detects said element.